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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,167	12/29/2000	Merle L. Miller	2069.008600 8941	
23720 7.	590 12/11/2003	EXAMINER		
	MORGAN & AMER	HAROLD, JEFFEREY F		
HOUSTON, T	OND, SUITE 1100 X 77042		ART UNIT	PAPER NUMBER
			2644	7
			DATE MAILED: 12/11/2003	<i>J.</i>

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No.		Applicant(s)				
Office Action Summary		no)/752,167		MILLER, MERLE	L.			
			aminer		Art Unit				
	•	1	fferey F. Harol	<u> </u>	2644				
	The MAILING DATE of this commu					dress			
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
1) ★ Responsive to communication(s) filed on (+) 29/(3)									
/ \		2b)⊠ This action	on is non-fina	ıl.					
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠	Claim(s) 1-18 is/are pending in the	application.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠	5) Claim(s) 9-12 is/are allowed.								
·	6)⊠ Claim(s) <u>1-8 and 13-18</u> is/are rejected.								
•	Claim(s) is/are objected to.								
8)	Claim(s) are subject to rest	riction and/or ele	ection require	ment.					
Applicat	ion Papers								
9) The specification is objected to by the Examiner.									
10)	The drawing(s) filed on is/ar								
	Applicant may not request that any ob					OED 4 404(d)			
	Replacement drawing sheet(s) includi								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. §§ 119 and 120									
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s)									
1) Not	in(s) ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review rmation Disclosure Statement(s) (PTO-1449	(PTO-948)) Paper No(s)	5) 🗌	Notice of Informal	y (PTO-413) Paper N Patent Application (P				
U.S. Patent and	Trademark Office								

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-8 and 13-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Moyal et al. (United States Patent 5,809,109), hereinafter referenced as Moyal.

Regarding **claim 1**, Moyal discloses an integrated ring sensor with fault detection. In addition, Moyal discloses a process for ring-trip detection in an inherent line card, consisting of:

using a digital to analog converter (110) for processing voice signals; receiving a ringing control signal; transmitting a ringing signal to a subscriber line in response to the ringing control signal; receiving a portion of the ringing signal from the subscriber line; converting the portion of the ringing signal to a digital signal using the digital-to-analog converter; and providing a ring-trip indication in response to the digital signal, as disclosed at column 2, line 41 through column 5, line 10 and exhibited in figure 4.

Regarding **claim 2**, Moyal discloses everything claimed as applied above (see claim 1), in addition Moyal discloses wherein the ringing signal comprises an AC signal, as disclosed at column 2, lines 57-64 and exhibited in figure 4.

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Regarding **claim 3**, Moyal discloses everything claimed as applied above (see claim 1), in addition, Moyal discloses terminating the ringing signal in response to the ring-trip indication, as disclosed at column 4, lines 8-50 and exhibited in figure 4.

Regarding **claim 4**, Moyal discloses a process, consisting of processing a voice signal in a non-ringing state, which reads on claimed "low-current mode" of a line card, the line card having an analog-to-digital (110) converter for converting the voice signal to a digital signal; receiving a ringing control signal; switching to a ringing state, which reads on claimed "high-current mode", of the line card in response to the ringing control signal; and ringing the telephone device (10) in response to switching to the ringing state of the line card; converting the portion of the ringing signal to a digital signal using to the digital-to-analog converter; and providing ring-trip indication in the ringing state in response to the digital signal, as disclosed at column 3, line 10 through column 5, line 10 and exhibited in figure 4.

Regarding **claims 5 and 6**, Moyal discloses everything claimed as applied above (see claim 4), in addition claims 5 and 6 are interpreted and thus rejected for the reasons set forth above in the rejection of claims 2 and 3.

Regarding **claims 7, 8, and 13-18**, Moyal discloses everything claimed as applied above in the rejection of claims 1-6, in addition claims 7, 8 and 13-18 are

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interpreted and thus rejected for the reasons set forth above in the rejection of claims 1-

6.

Allowable Subject Matter

2. **Claims 9-12** are allowed.

3. The following is an examiner's statement of reasons for allowance:

Regarding **claim 9**, the prior art of record discloses an apparatus consisting of a ringing generator capable of providing a ringing signal to a subscriber line in response to a control signal, an analog-to-digital converter for processing voice signals, however, the prior art of record fails to discloses or fairly suggest a feed back loop having an input and output terminal, a switch capable of coupling the input and output terminal of the feedback loop in response to receiving a control signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is (703) 306-5836. The examiner can normally be reached on Monday-Friday 9:30am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4800.

JFH

December 8, 2003

XU MEI

PRIMARY EXAMINER